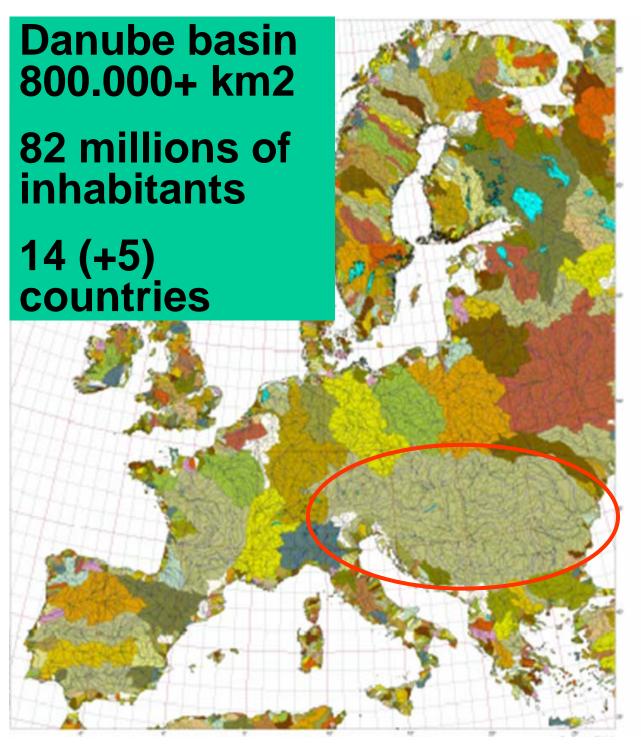
# Hungarian Experiences in the Implementation of WFD

Kálmán PAPP International Coordinator

**Central Directorate for Water and Environment, Hungary** 



Stockholm, August 20-21
Meeting of River Basin District Authorities





# Implementation of the EU Water Framework Directive

EU objectives: sustainable use of water

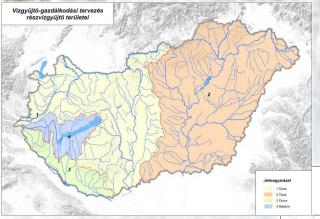
#### ICPDR aims:

coordinating the common objectives of the Danube basin

#### National aims:

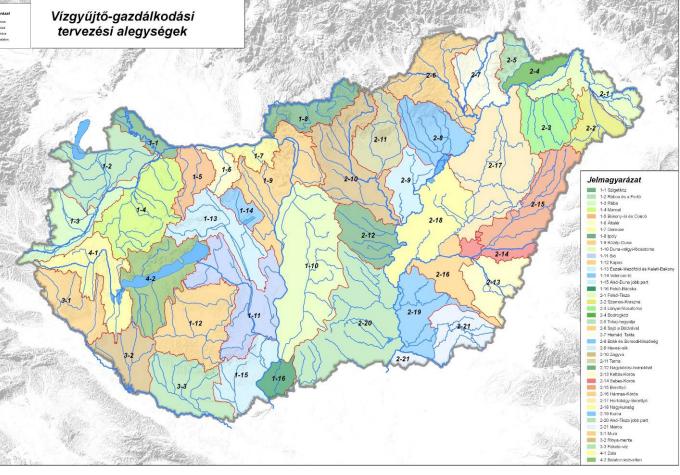
Considering the special needs and circumstances of flood control Introduction of the open planning process in water management

#### **Sub-basins in Hungary**



4 sub-basins (Danube, Tisza, Dráva, Lake Balaton)

42 planning units for the detailed planning activity



#### Participants in the planning

**Competent authorities:** 

The plans prepared by:

**Participating institutions:** 

**Ministerial / international partners:** 

Other interested partners:

The plans are endorsed by:

**Participants in the implementation:** 

**KvVM, VKKI (Ministry and Central Directorate)** 

Local directorates in consortium with ÖKO Zrt Consulting Co.

**Green Authorities, National Park Directorates** 

Other ministries and their national or regional institutions
Neighbouring countries

Municipalities, self governments, water boards, professional technical and civil organisations, producers, population

Water Councils, KvVM

Local Directorates, Consultants by tenders, construction and maintanence companies

### 1st National Report sent to the EC June 2004



Positioning the country in DRBD,



Nominating the competent authority,

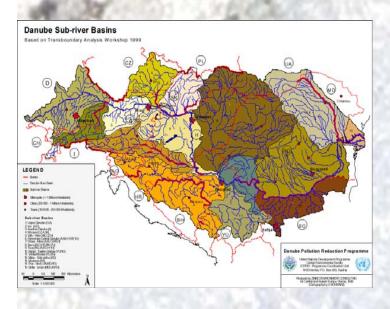


Preparing relevant international coordination arrangements.

Art. 3



### 2nd Report sent to the EC March 2005

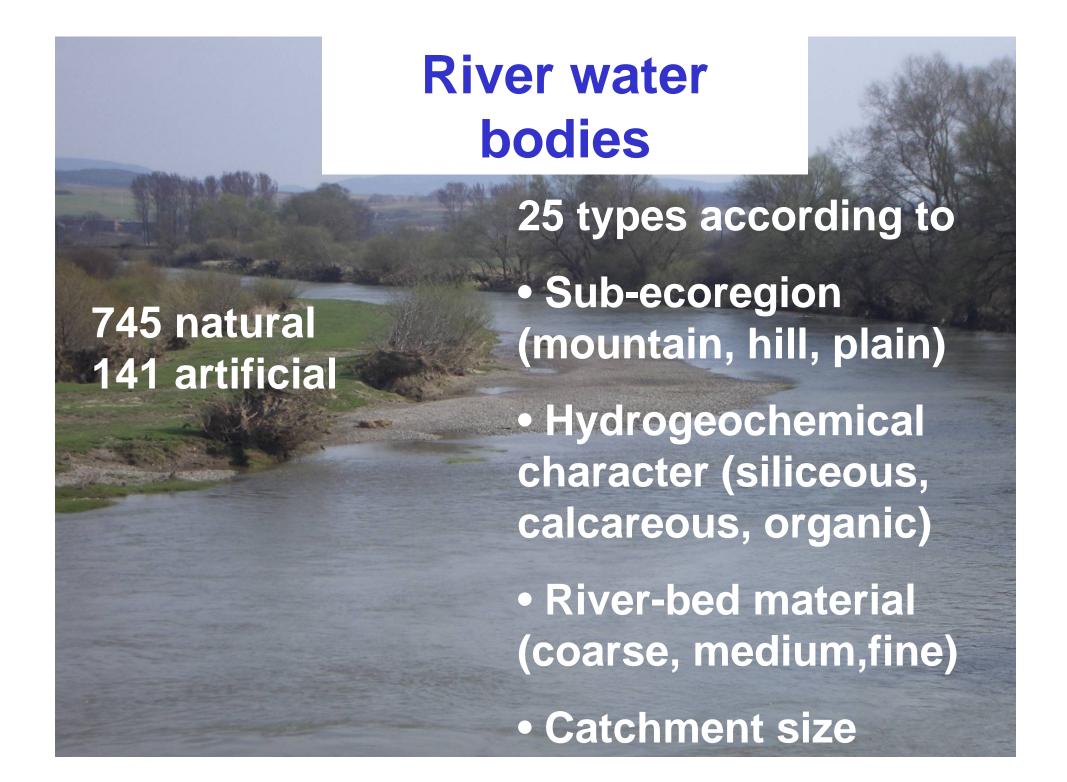




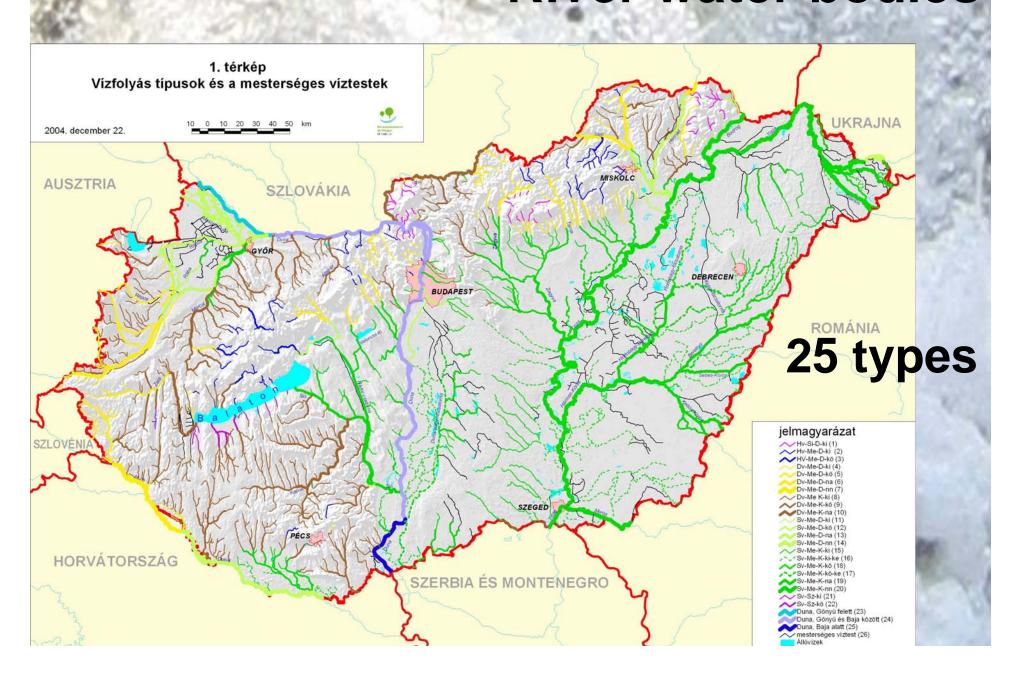
Part A "Roof Report"

- characterization of the RB,
- pressures and impacts,
- economic analyses of water uses
- list of protected areas

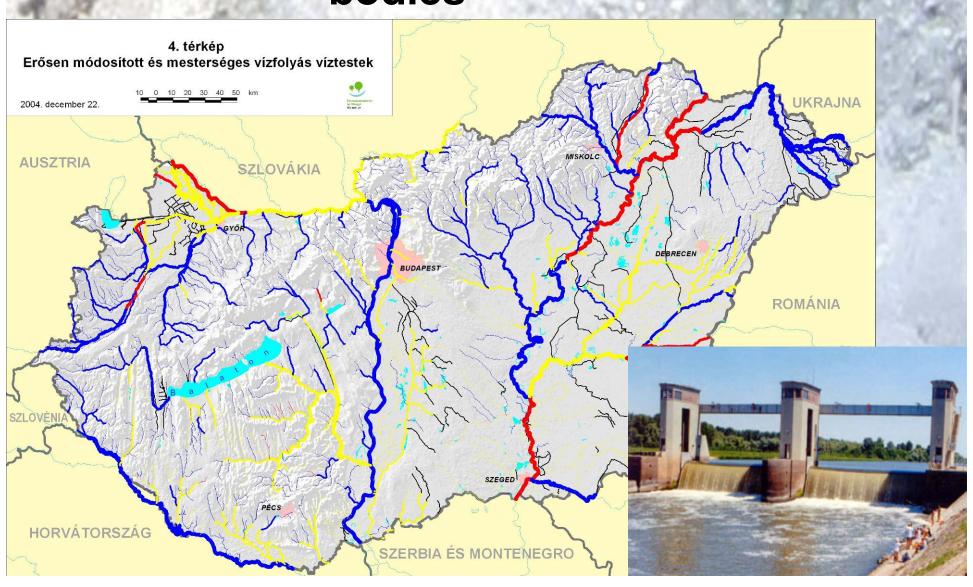
Part B "National Report"

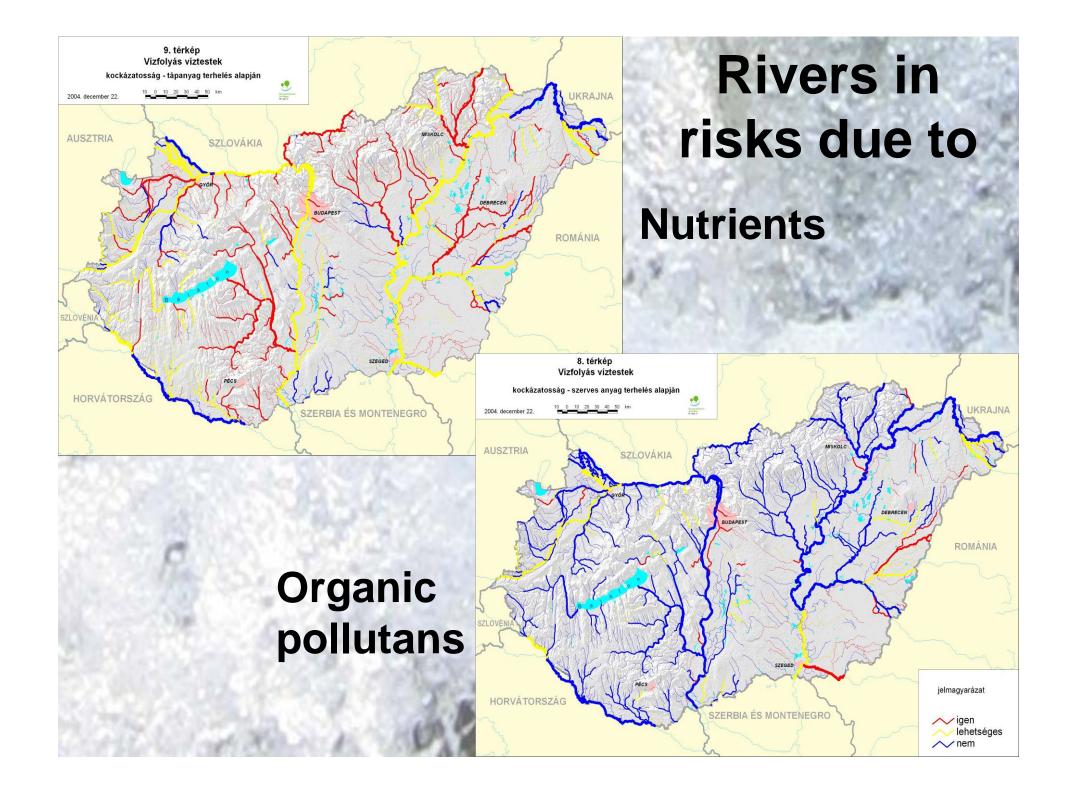


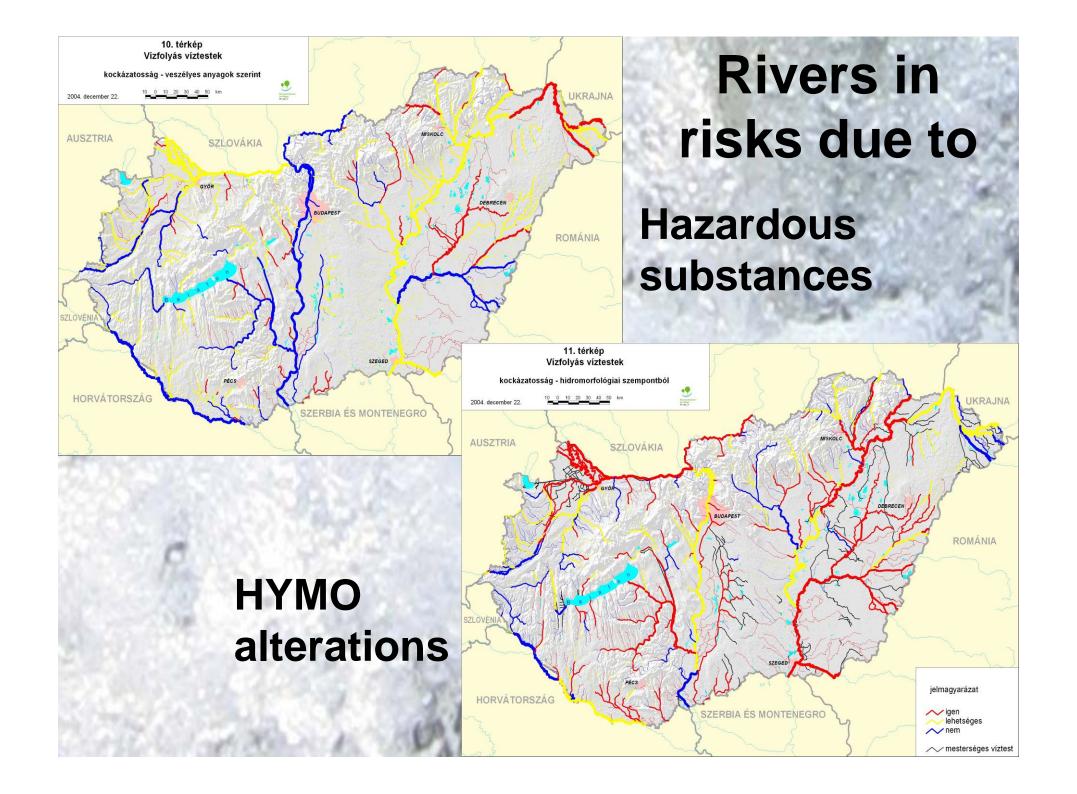
### River water bodies

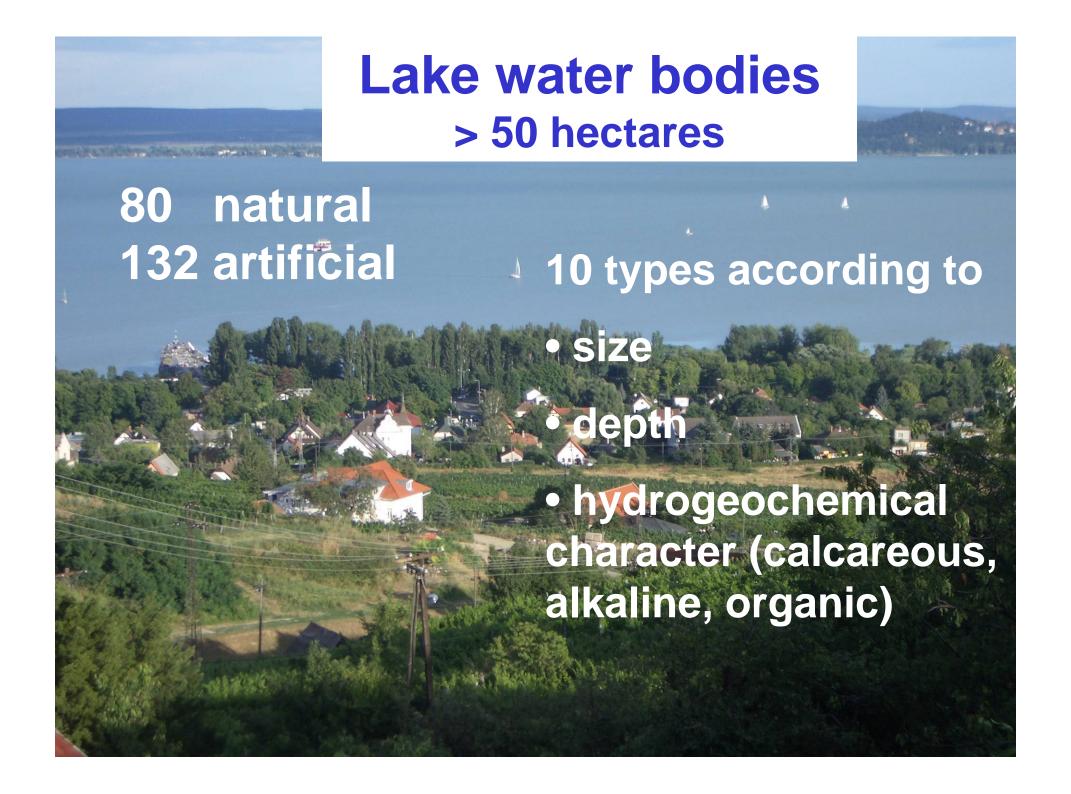


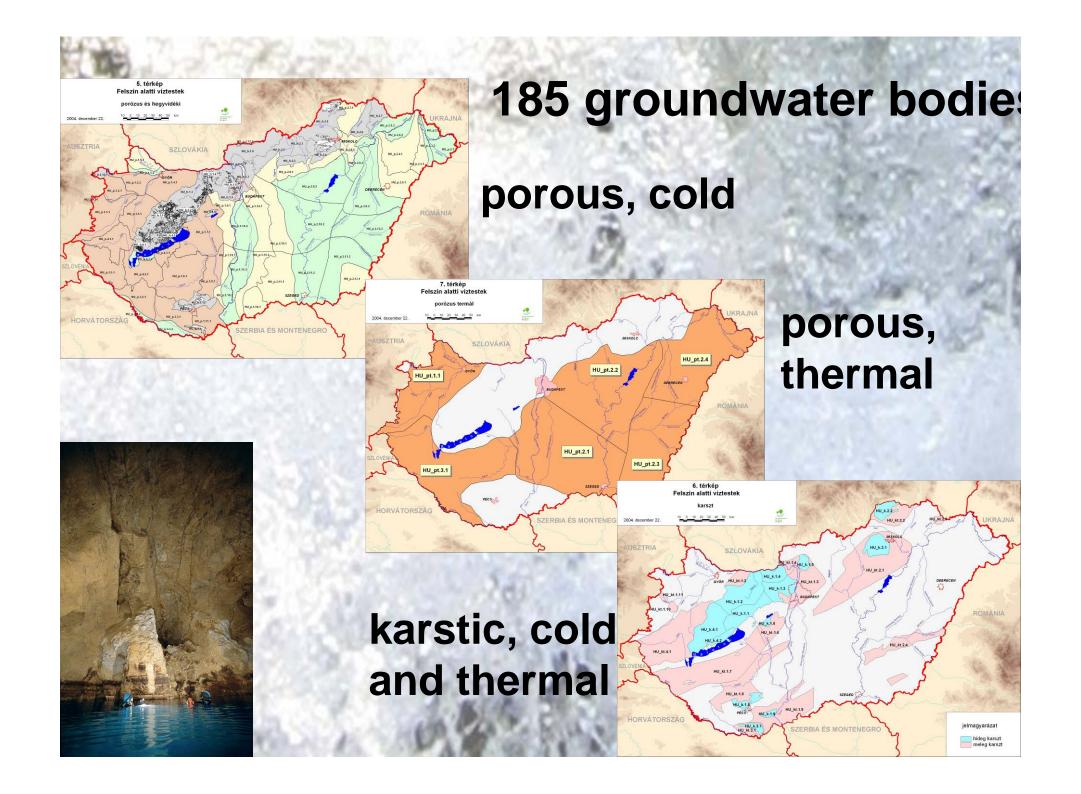
# Heavily modified (red) & artificial (black) river water bodies

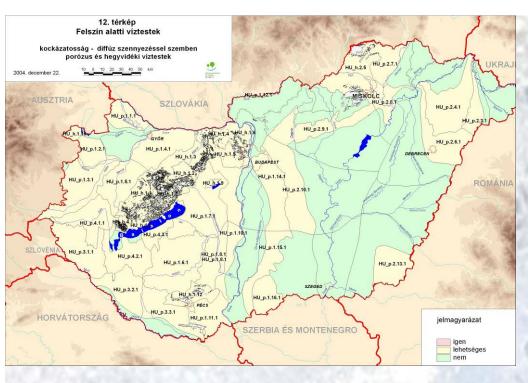






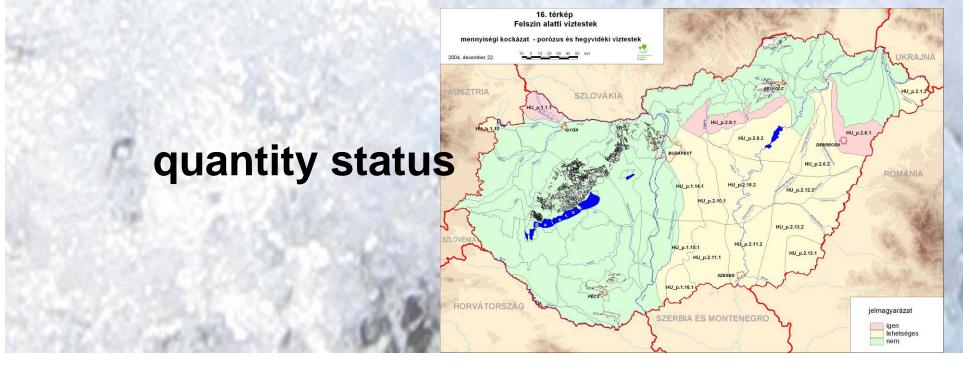






# **GW** bodies in risks due to

# diffuse pollution



## 3rd National Report sent to the EC in 2007

#### Monitoring programmes for:

- surface waters: ecological and chemical status and changes
  - rivers: 338 stations,
  - lakes 46 stations,
- groundwaters: chemical and quantity status and changes,
   3200 stations.

### Main pressures on the HU water bodies (surface waters)

- Organic pressures (decreasing oxygen content)
- unsuitable urban wastewater treatment
- bad practice of animal & fish farming
- Nutrient pressures (eutrophication)
- unsuitable agriculture practices uncontrolled artificial fertilizer uses contaminated internal water intaking agricultural activity close to the rivers
- unsuitable urban wastewater treatment
- River bed regulation/ bank and shore modification
- impoundments for storage(migration barriers) / longitudinal interruption
- dams for flood protection (water dependant habitats deterioration)
- bank and shore stabilization for management (water dependant habitats deterioration)
- Artificial channels for polder/internal water management
- lack of water retention (water dependant habitats deterioration)
- lack of revitalization (for good ecological potential)
- Artificial channels for irrigation
- their role will increase in the near future (climate change effect)

## Main pressures on HU water bodies (groundwaters)

- local overabstractions for
  - drinking water (water resources decreasing)
  - irrigation (GWB dependant habitats deterioration)
  - surface & subsurface mining (water resources decreasing)
  - thermal water uses for bathing and greenhouses
- contaminations
  - genetic (geological e.g. As, B)
  - antropogenic caused by present and past time leakages from urban, industrial and agro contaminated sites

# Programme of Measures by interested fields and offices

- Agriculture and rural development
- Water resources management
- Spatial planning and local governement
- Economy, energy and transport
- Nature heritage protection
- Other governance issues

### Planning of measures

Due to lack of biological data, emphasis is on hydromorphology and water quality.

Basic studies were carried out for identifying relations between biological and hydromorphological or water quality parameters.

#### Public information and consultation

#### Homepages

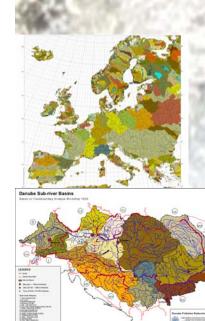
- www.euvki.hu website on WFD and HU WFD relevancies
- www.vizeink.hu website on RBMP process and interim reports, drafts and final documentations for consultation

#### Fora for consultation

- on website
- on professional and stakeholder workshops
- on Water Management Council meetings (national, regional, local)
- on RBM planning unit area (42 venues)
- extra thematic consultations (25 events)

#### Media events – press conferences

- National (Central Directorate)
- Regional & local (12 water directorates/agencies)



European

river basin

national

local

levels need to co-operate for reaching good water status by 2015

